

Applicants

Form PTO-1449

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 348022000221

Application Number 09/151,376

Applicant

Daniel R. HENDERSON and Eric R. SCHUUR

Filing Date September 10, 1998

Group Art Unit 1633

Mailing Date September 13, 2000

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
DL	1.	12/07/1999	5,998,205	Hallenbeck et al.	435	325	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation
							NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title

EXAMINER: *Deloral Clark*

DATE CONSIDERED: *10-27-00*

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## U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
DRC	1.	11/1984	4,483,694	Takamura et al.	55	158	
DRC	2.	12/1984	4,487,755	Arendt	423	598	
DRC	3.	09/1986	4,610,968	Wada et al.	501	137	
DRC	4.	09/1986	4,610,970	Wada et al.	501	137	
DRC	5.	06/1987	4,677,083	Uedaira et al.	423	598	
DRC	6.	01/1990	4,893,623	Rosenbluth	606	192	
DRC	7.	01/1991	4,983,839	Deb	256	338.3	
DRC	8.	03/1991	4,999,736	Kishi et al.	361	321	
DRC	9.	03/1991	4,999,737	Kishi et al.	361	321	
DRC	10.	04/1991	5,007,437	Sterzeg	428	786	
DRC	11.	08/1993	5,232,880	Wada et al.	501	137	
DRC	12.	09/1993	5,248,640	Sano et al.	501	137	
DRC	13.	03/1994	5,290,740	Abe et al.	501	139	
DRC	14.	04/1994	5,302,698	Morinaga et al.	530	350	
DRC	15.	05/1994	5,314,651	Kulwicki	264	65	
DRC	16.	06/1994	5,319,517	Nomura et al.	361	321.4	
DRC	17.	09/1994	5,344,435	Turner et al.	607	101	
DRC	18.	01/1995	5,378,663	Abe et al.	501	32	
DRC	19.	06/1995	5,427,988	Sengupta et al.	501	137	
DRC	20.	01/1996	5,486,491	Sengupta et al.	501	137	
DRC	21.	04/1996	5,510,305	Sano et al.	501	138	
DRC	22.	05/1996	5,516,771	Dionne et al.	514	211	
DRC	23.	06/1996	5,527,336	Rosenbluth et al.	606	192	
DRC	24.	08/1996	5,549,983	Yamanis	429	32	
DRC	25.	10/1996	5,569,667	Grove et al.	514	403	
DRC	26.	06/1997	5,635,433	Sengupta	501	137	
DRC	27.	06/1997	5,635,434	Sengupta	501	138	
DRC	28.	07/1997	5,648,478	Henderson	536	241	

EXAMINER: (examiner)

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	29	12/1997	5,698,443	Henderson et al.			
DRC	30.	09/1998	5,807,642	Xue et al.	429	33	

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
DRC	31.	05/1995	2,134,994	Canada			
DRC	32.	10/1993	WO 93/19768	PCT			
DRC	33.	02/1994	WO 94/03594	PCT			
DRC	34.	12/1994	WO 94/28152	PCT			
DRC	35.	05/1995	WO 95/11984	PCT			
DRC	36.	05/1995	WO 95/14100	PCT			
DRC	37.	04/1996	WO 96/10838	PCT			
DRC	38.	06/1996	WO 96/16676	PCT			
DRC	39.	06/1996	WO 96/17053	PCT			
DRC	40.	07/1996	WO 96/21036	PCT			
DRC	41.	11/1996	WO 96/34969	PCT			
DRC	42.	11/1996	WO 96/36365	PCT			
DRC	43.	01/1997	WO 97/01358	PCT			
DRC	44.	09/1998	WO 98/39465	PCT			
DRC	45.	09/1998	WO 98/39466	PCT			
DRC	46.	09/1998	WO 98/39467	PCT			

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Examiner Initials	Ref. No.	Title
	47.	Abe, M. et al., "Transcriptional regulation of DF3 gene expression in human MCF-7 breast carcinoma cells" <i>J. Cell. Physiol.</i> 143:226-231 (1990).
	48.	Abe, M. et al., "Characterization of cis-acting elements regulating transcription of the human DF3 breast carcinoma-associated antigen ( <i>MUC1</i> ) gene" <i>Proc. Natl. Sci. Acad. USA, Biochemistry</i> , 90:282-286 (January 1993).

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Examiner Initials	Ref. No.	Title
		breast carcinoma-associated antigen ( <i>MUC1</i> ) gene" <i>Proc. Natl. Sci. Acad. USA Biochemistry</i> , 90:282-286 (January 1993).
		Adair, G. et al., "Targeted homologous recombination at the endogenous adenine phosphoribosyltransferase locus in chinese hamster cells" <i>Proc. Natl. Acad. Sci. USA Genetics</i> 86:4574-4578 (June 1989).
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	51.	An, G. et al., "Expression of bacterial $\beta$ -galactosidase in animal cells" <i>Mol. Cell. Biol.</i> 2(12):1628-1632 (December 1982).
	52.	Arbuthnot, P. et al., "In vitro and in vivo hepatoma cell-specific expression of a gene transferred with an adenoviral vector" <i>Human Gene Therapy</i> 7(13):1503-1514 (August 20, 1996).
DRC	53.	Arnberg, N., et al., "Fiber genes of adenoviruses with tropism for the eye and the genital tract" <i>Virol.</i> 227:239-244, Article No. VY698269, (1997). <sup>2</sup>
	54.	Ausubel, F. M. et al. (Editors), "Current Protocols in Molecular Biology", Table 7.7.1 "Commercially available sequence-analysis software," Sections 7.7.18-19 (computer manipulation of DNA and protein sequences), Supplement 30, (1987).
	55.	Ausubel, F.M. et al. (Editors), "Current Protocols in Molecular Biology," Volume I, John Wiley & Sons, Inc., Table of Contents, Supplement 30, 39, pp. iii-xii (1995).
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DRC	61.	Bett, A. et al., "An efficient and flexible system for construction of adenovirus vectors with insertions or deletions in early regions 1 and 3" <i>Proc. Natl. Acad. Sci. USA, Medical Sciences</i> , 91:8802-8806 (September 1994).
	62.	Blok, L. et al., "Follicle-stimulating hormone regulates androgen receptor mRNA in Sertoli cells" <i>Molecular and Cellular Endocrinology</i> 63:267-271 (1989).
	63.	Blok, L. et al., "Transcriptional regulation of androgen receptor gene expression in Sertoli Cells and other cell types" <i>Molecular and Cellular Endocrinology</i> 88:153-164 (1992).

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	64.	Bohinski, R. et al., "Cis-active elements controlling lung cell-specific expression of human pulmonary surfactant protein B gene" <i>J. Biol. Chem.</i> 268(15):11160-11166 (May 25, 1993).
	65.	Boral, A. et al., "Identification of the SL3-3 virus enhancer core as a T-lymphoma cell-specific element" <i>J. Virol.</i> 63(1):76-84 (January 1989).
DRC	66.	Boulikas, Teni "Gene therapy of prostate cancer: p53, suicidal genes, and other targets" <i>Anticancer Research</i> 17:1471-1505 (1997).
DRC	67.	Braun, R. P. and Lee, J.S., "Immunogenic duplex nucleic acids are nuclease resistant" <i>J. Immunol.</i> 141(6):2084-2089 (September 15, 1988).
DRC	68.	Bridge, E. and Ketner, G., "Redundant control of adenovirus late gene expression by early region 4" <i>J. Virol.</i> 63(2):631-638 (February 1989).
	69.	Burnstein, K. et al., "Androgen and glucocorticoid regulation of androgen receptor cDNA expression" <i>Molec. Cell. Endocrinol.</i> 115:177-186 (1995).
	70.	Butterfield, L. et al., "Cloning and analysis of MART-1/Melan-A human melanoma antigen promoter regions" <i>Gene</i> 191:129-134 (1997).
	71.	Buzek, S.W. and Sanborn, B. M., "Increase in testicular androgen receptor during sexual maturation in the rat" <i>Biology of Reproduction</i> 39:39-49 (1988).
	72.	Calabrisi, P. and Chabner, B. "Antineoplastic agents" Chapter 52 in <i>Goodman and Gilman's: The Pharmacological Basis of Therapeutics</i> (Eds. A. G. Gilman, T. Rall, A.S. Nies, and P. Taylor, Pergamon Press, NY) 8th edition, pp. 1209-1263, (1990).
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	75.	Carson-Jurica, M. et al., "Steroid receptor family: structure and functions" <i>Endocrine Reviews</i> 11(2):201-220 (May 1990).
	76.	Chan, L. et al., "Steroid Hormone Action" in: <i>Pediatric Endocrinology</i> , 2nd Edition, Collu R. et al. (Editors), pp. 81-124, Raven Press, New York (1989).
	77.	Chang, C. et al., "Structural analysis of complementary DNA and amino acid sequences of human and rat androgen receptors" <i>Proc. Natl. Acad. Sci. USA, Biochemistry</i> , 85:7211-7215 (October 1988).
DRC	78.	Chang, Y. et al., "Cancer gene therapy using novel tumor specific replication competent adenoviral vectors" <i>Cold Spring Harbor Gene Therapy Meeting</i> , page 53 (September 1996).
	79.	Charlesworth, C. et al., "Detection of a prostate-specific protein, human glandular kallikrein (hK2), in sera of patients with elevated prostate-specific antigen levels" <i>Urology</i> 49(3):487-493 (1997).

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Examiner Initials	Ref. No.	Title
	80.	Chaturvedi, S. et al., "Stabilization of triple-stranded oligonucleotide complexes: Use of probes containing alternating phosphodiester and stereo-uniform cationic phosphoramidate linkages" <i>Nucleic Acids Research</i> 24(12):2318-2323 (1996).
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	82.	Coligan, J.E. et al. (Editors) "Current Protocols in Immunology," Volume 1, eds., John Wiley & Sons, Inc., Supplement 28, Table of Contents, pp. 1-9 (1994).
	83.	Culver, K.W. et al., "Gene therapy for cancer" <i>Trends in Genetics</i> 10(5), 174-178, (May 1994).
	84.	Darson, M. et al., "Human glandular kallikrein 2 (hK2) expression in prostatic intraepithelial neoplasia and adenocarcinoma: a novel prostate cancer marker" <i>Urology</i> 49(6):857-862 (1997).
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	86.	Dix, Ian and Leppard, Keith "Regulated splicing of adenovirus type 5 E4 transcripts and regulated cytoplasmic accumulation of E4 mRNA" <i>J. Virol.</i> 67(6):3226-3231 (June 1993).
	87.	Emerson, et al., "The zonal expression of $\alpha$ -fetoprotein transgenes in the livers of adult mice" <i>Development Dynamics</i> 195(1):55-66 (1992).
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DRC	89.	Flint, S.J., "Expression of adenoviral genetic information in productively infected cells" <i>Biochimica et Biophysica Acta</i> 651:175-208 (1982).
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DRC	92.	Frankel, A. et al., "Selection and characterization of ricin toxin A-chain mutations in <i>Saccharomyces cerevisiae</i> " <i>Molecular Cellular Biology</i> 9(2):415-420 (February 1989).
	93.	Freshney, R.I. (Editor), "Animal Cell Culture: a practical approach" IRL Press, Oxford, Table of Contents, pp. vii-xii (1987).
	94.	Gait, M.J. (Editor) "Oligonucleotide Synthesis: a practical approach," IRL Press, Oxford, Table of Contents, pp. vii-xii (1984).
	95.	Garcia-Arenas, R. et al., "The expression of prostatic acid phosphatase is transcriptionally regulated in human prostate carcinoma cells" <i>Mol. Cell. Endocrinol.</i> 111:29-37 (1995).

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PTO/SB/08 (2-92)

Sheet 6 of 15

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Examiner Initials	Ref. No.	Title
X	96.	Gennaro, A. R. (Editor) "Remington's Pharmaceutical Sciences," 18th Edition, Mack Publishing, Table of Contents, pp. xv-xvi (1990).
X	97.	Ghebranious, N. et al., "Developmental control of transcription of the cat reporter gene by a truncated mouse alphafetoprotein gene regulatory region in transgenic mice" <i>Mol. Reprod. Devel.</i> 42:1-6 (1995).
X	98.	Girling, A. et al., "A core protein epitope of the polymorphic epithelial mucin detected by the monoclonal antibody SM-3 is selectively exposed in a range of primary carcinomas" <i>Int. J. Cancer</i> 43:1072-1076 (1989).
X	99.	Gómez Lahoz, E. et al., "Tissue-specific and hormonally regulated expression of the puromycin N-acetyltransferase-encoding gene under control of the rabbit uteroglobin promoter in transgenic mice" <i>Gene</i> 117:255-258 (1992).
DRC	100.	Goodrum, F.D. and Ornelles, D.A., "The early region 1B 55-Kilodalton oncoprotein of adenovirus relieves growth restrictions imposed on viral replication by the cell cycle" <i>J. Virol.</i> 71(1):548-561 (January 1997).
X	101.	Gotoh A. et al., "New strategy of toxic gene therapy for human prostate cancer cells" <i>Proceedings of the American Urological Association</i> 153, 4 Supp., 308A, Abstract No. 320 (April 1995).
DRC	102.	Graham, F.L., and Van der Eb, A.J. "A New Technique for the Assay of Infectivity of Human Adenovirus 5 DNA" <i>Virology</i> 52:456-467 (1973).
DRC	103.	Graham, F.L., et al., "Characteristics of a human cell line transformed by DNA from human adenovirus type 5" <i>The Journal of General Virology</i> 36(Part 1):59-72 (1977).
DRC	104.	Graham, F.L., "Covalently closed circles of human adenovirus DNA are infectious" <i>The EMBO Journal</i> 3(12):2917-2922 (1984).
DRC	105.	Graham, F.L., "Growth of 293 cells in suspension culture" <i>J. Gen. Virology</i> 68:937-940 (1987).
DRC	106.	Grand, Roger "The structure and functions of the adenovirus early region 1 proteins" <i>Biochem. J.</i> 241:25-38 (1987).
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X	108.	Greenberg, N. et al., "Prostate cancer in transgenic mouse" <i>Proc. Natl. Acad. Sci. USA, Medical Sciences</i> , 92:3439-3443 (April 1995).
X	109.	Green Dodd, J. et al., "Characterization and cloning of rat dorsal prostate mRNAs" <i>J. Biol. Chem.</i> 258(17):10731-10737 (September 10, 1983).
X	110.	Griffith, D. et al., "High affinity sodium-dependent nucleoside transport in cultured renal epithelial cells (LLC-PK <sub>1</sub> )" <i>J. Biol. Chem.</i> 268(27):20085-20090 (September 25, 1993).
X	111.	Grooteclaes, M. et al., "The 6-kilobase c-erbB2 promoter contains positive and negative regulatory

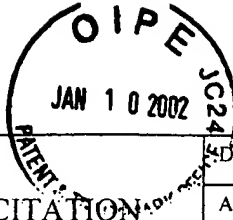
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D. Susan Clark

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		elements functional in human mammary cell lines" <i>Cancer Res.</i> 54:4193-4199 (August 1, 1994).
X	112.	Grootegeod, A. et al., "Absence of a nuclear androgen receptor in isolated germinal cells of rat testis" <i>Molec. Cell. Endocrinol.</i> 9:159-167 (1977).
X	113.	Groupp, E. et al., "Characterization of the distal $\alpha$ -fetoprotein enhance, a strong, long distance, liver specific activator" <i>J. Biol. Chem.</i> 269(35):22178-22187 (September 2, 1994).
X	114.	Hauck, W. and Stanners, C. "Transcriptional regulation of the Carcinoembryonic antigen gene" <i>J. Biol. Chem.</i> 270(8):3602-3610 (February 24, 1995).
X	115.	Hayashi, Y. et al., "Expression of a thyroid hormone-responsive recombinant gene introduced into adult mice livers by replication-defective adenovirus can be regulated by endogenous thyroid hormone receptor" <i>J. Biol. Chem.</i> 269(39):23872-23875 (September 30, 1994).
X	116.	Helin, K. and Harlow, E., "Heterodimerization of the transcriptional factors E2F1 and DP-1, required for binding to the adenovirus E4 (ORF6/7) protein" <i>J. Virol.</i> 68(8):5023-5035 (August 1994).
X	117.	Hilkens, John "Biochemistry and function of mucins in malignant disease" <i>Cancer Rev.</i> 11-12:25-54 (1988).
X	118.	Hirschowitz, E. et al., "In vivo adenovirus-mediated gene transfer of the <i>Escherichia coli</i> cytosine deaminase gene to human colon carcinoma-derived tumors induces chemosensitivity to 5-Fluorocytosine" <i>Human Gene Therapy</i> 6:1055-1063 (August 1995).
X	119.	Hodgson, C. "Advances in vector systems for gene therapy" <i>Exp. Opin. Ther. Pat</i> 5(5):459-468 (1995).
X	120.	Huber, B. et al., "VDEPT: An enzyme/prodrug gene therapy approach for the treatment of metastatic colorectal cancer" <i>Adv. Drug. Delivery Reviews</i> 17:279-292 (1995).
X	121.	Hudson, L. et al., "Structure and inducible regulation of the human c-erb B2/neu promoter" <i>J. Biol. Chem.</i> 265(8):4389-4393 (March 15, 1990).
X	122.	Hung Mien-Chie et al., "HER-2/neu-targeting gene therapy - a review" <i>Gene</i> 159:65-71 (1995).
X	123.	Ido Aki et al., "Gene therapy for hepatoma cells using a retrovirus vector carrying herpes simplex virus thymidine kinase gene under the control of human $\alpha$ -fetoprotein gene promoter" <i>Cancer Res.</i> 55:3105-3109 (July 15, 1995).
X	124.	Ishii Shunsuke et al., "Characterization of the promoter region of the human c-erbB2 protooncogene" <i>Proc. Natl. Acad. Sci. USA, Biochemistry</i> 84:4374-4378 (July 1987).
X	125.	Jaffe, H. et al., "Adenovirus-mediated in vivo gene transfer and expression in normal rat liver" <i>Nature, Genetics</i> 1:372-378 (August 1992).
X	126.	Jakoby, W.B. et al. (Editors), "Methods in Enzymology," Volume LVIII, Cell Culture, eds, Academic Press, New York, Table of Contents, pp. v-viii (1979).

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Daniel R. Henderson and Eric R. Schuur

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Form PTO-1449

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Sheet 1 of 15

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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Docket Number 348022000221

Application Number 09/151,376

Applicant

Daniel R. Henderson and Eric R. Schuur

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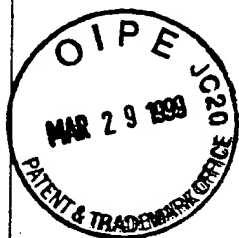
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## OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	237.	Zain, B.S. and Roberts, R.J. "Characterization and sequence analysis of a recombinant site in the hybrid virus Ad2 <sup>ND1</sup> " <i>J. Mol. Biol.</i> 120:13-31 (1978).
DRC	238.	Zhai Wei-Rong et al., "A nude mouse model for the in vivo production of hepatitis B virus" <i>Gastroenterology</i> 98(2):470-477 (February 1990).
	239.	Zhang, Jianye et al., "Identification of two novel <i>enh</i> -elements in the promoter of the prostate-specific antigen gene that are required to enhance androgen receptor-mediated transactivation" <i>Nucleic Acids Res.</i> 25(15) 3143-3150 (1997).
	240.	Zhou, Zhong-Xun et al., "The androgen receptor: An overview" <i>Recent Progress in Hormone Research</i> 49:249-274 (1994).
	241.	Zhou, D. et al., "Identification of a promoter that controls aromatase expression in human breast cancer and adipose stromal cells" <i>J. Biol. Chem.</i> 271(25):15194-15202 (June 21, 1996).
DRC	242.	Zijlstra, M., et al., "Germ-line transmission of a disrupted $\beta_2$ -microglobulin gene produced by homologous recombination in embryonic stem cells" <i>Nature</i> 342:435-438 (November 23, 1989).
	243.	Zotter, S. et al., "Tissue and tumor distribution of human polymorphic epithelial mucin" <i>Cancer Res.</i> 48:11-12:55-101 (1988).



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